

AMENDMENTS TO THE CLAIMS

WHAT IS CLAIMED IS:

1. (Currently amended) A flowable granular adsorbate comprising: a granular pyrogenic silicon dioxide carrier, prepared by flame hydrolysis, spray drying and a heat treatment, said carrier having a surface, and at least one substance adsorbed on said surface, or enveloped therein, selected from the group consisting of a foodstuff additive, a feedstuff additive and a plant protection agent, wherein the silicon dioxide has the following characteristics:

Pore volume: 0.5 to 2.5 ml/g

Pore size distribution: less than 5% of the total pore volume has a pore diameter of less than 5 nm, remainder meso- and macropores

pH: 3.6 to 8.5

Tamped density: 220 to 700 g/l

Average particle diameter: 10 to 120 μm

BET surface area: 40 to 400 m^2/g ,

Particle size distribution: 80 volume % larger than 8 μm and 80 volume % smaller than 96 μm .

wherein 0.001 to 200 g of substance is present per 100 g of silicon dioxide granule.

2. (Previously Presented) The granule according to Claim 1, wherein the foodstuff additive is a member selected from the group consisting of dyestuffs, antioxidants, preservatives,

emulsifiers, gelling agents, thickeners, binders, stabilizers, alkalis, acids, salts, antilumping agents, flavour intensifiers, sweeteners and aromas.

3. (Previously Presented) The granule according to Claim 1, wherein the plant protective agent is an herbicide, insecticide or fungicide.
4. (Previously Presented) The granule according to Claim 2, characterized in that the silicon dioxide granule is silanized.
5. (Cancelled)
6. (Previously Presented) The granule according to Claim 1 wherein the granule has meso- and macropores, the mesopores making up 10 to 80% of the total volume.
7. (Cancelled)
8. (Previously Presented) The granule according to Claim 4 which is silanized with a member selected from the group consisting of:

Halogeno-organosilanes of the type $X_3Si(C_nH_{2n+1})$

X = Cl, Br

n = 1 – 20

Halogeno-organosilanes of the type $X_2(R')Si(C_nH_{2n+1})$

X = Cl, Br

R' = alkyl

n = 1 – 20

Halogeno-organosilanes of the type $X(R')_2Si(C_nH_{2n+1})$

X = Cl, Br

R' = alkyl

n = 1 – 20

Halogeno-organosilanes of the type $X_3Si(CH_2)_m-R'$

X = Cl, Br

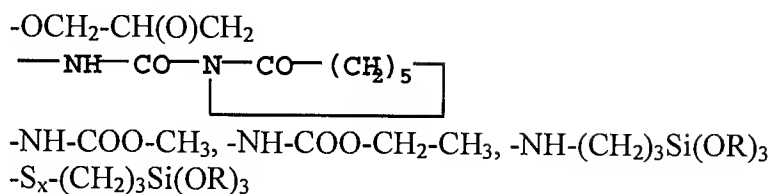
m = 0, 1 – 20

R' = alkyl, aryl (e.g. $-C_6H_5$)

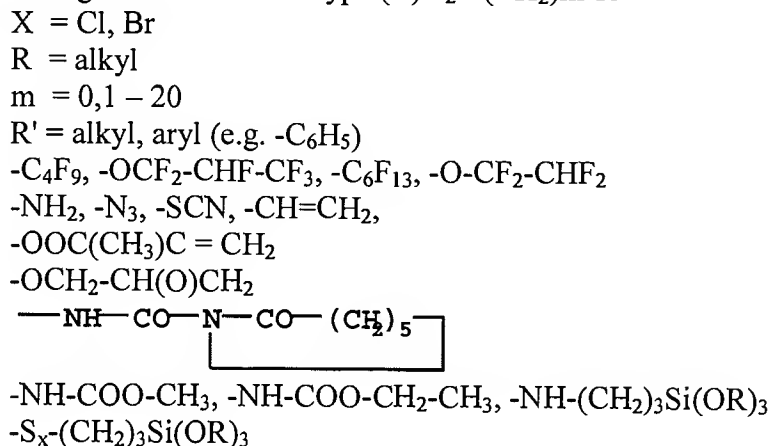
$-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$

$-NH_2$, $-N_3$, $-SCN$, $-CH=CH_2$,

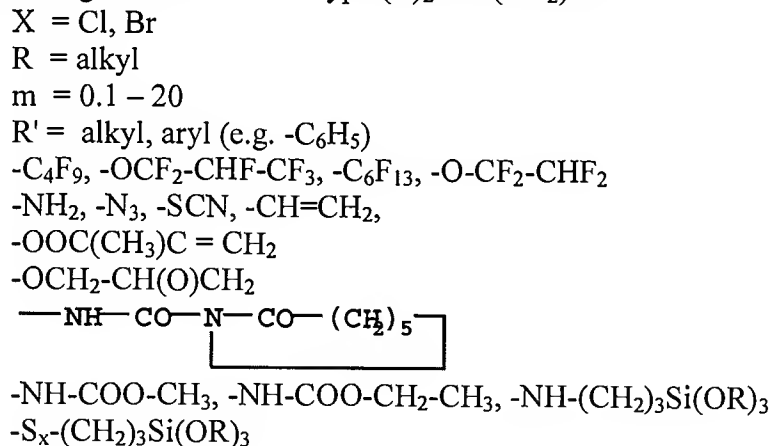
$-OOC(CH_3)C=CH_2$



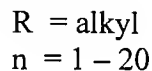
Halogeno-organosilanes of the type $(\text{R})\text{X}_2\text{Si}(\text{CH}_2)_m\text{-R}'$



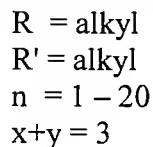
Halogeno-organosilanes of the type $(\text{R})_2\text{X Si}(\text{CH}_2)_m\text{-R}'$



Organosilanes of the type $(\text{RO})_3\text{Si}(\text{C}_n\text{H}_{2n+1})$



Organosilanes of the type $\text{R}'_x(\text{RO})_y\text{Si}(\text{C}_n\text{H}_{2n+1})$



$$x = 1,2$$

$$y = 1,2$$

Organosilanes of the type $(RO)_3Si(CH_2)_m-R'$

R = alkyl

m = 0,1 – 20

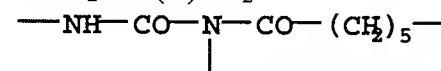
R' = alkyl, aryl (e.g. $-C_6H_5$)

$-C_4F_9$, $OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$

$-NH_2$, $-N_3$, $-SCN$, $-CH=CH_2$,

$-OOC(CH_3)C=CH_2$

$-OCH_2-CH(O)CH_2$



$-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$

$-S_x-(CH_2)_3Si(OR)_3$

Organosilanes of the type $(R'')_x(RO)_ySi(CH_2)_m-R'$

R'' = alkyl

x+y = 2

x = 1,2

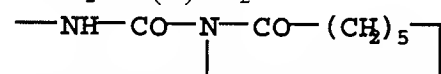
y = 1,2

$-C_4F_9$, $OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$

$-NH_2$, $-N_3$, $-SCN$, $-CH=CH_2$,

$-OOC(CH_3)C=CH_2$

$-OCH_2-CH(O)CH_2$



$-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$

$-S_x-(CH_2)_3Si(OR)_3$.

9. (Canceled)
10. (Previously Presented) The granule according to Claim 1, characterized in that the silicon dioxide granules are silanized.
11. (Previously Presented) The granule according to Claim 1 in which a dyestuff is adsorbed on the surface thereof, or enveloped therein.
12. (Previously Presented) The granule according to Claim 1 in which an antioxidant is adsorbed on the surface thereof, or enveloped therein.

13. (Previously Presented) The granule according to Claim 1 in which a preservative is adsorbed on the surface thereof, or enveloped therein.
14. (Previously Presented) The granule according to Claim 1 in which an emulsifier is adsorbed on the surface thereof, or enveloped therein.
15. (Previously Presented) The granule according to Claim 1 in which a gelling agent is adsorbed on the surface thereof, or enveloped therein.
16. (Previously Presented) The granule according to Claim 1 in which a thickener is adsorbed on the surface thereof, or enveloped therein.
17. (Previously Presented) The granule according to Claim 1 in which a binder is adsorbed on the surface thereof, or enveloped therein.
18. (Previously Presented) The granule according to Claim 1 in which a stabilizer is adsorbed on the surface thereof, or enveloped therein.
19. (Previously Presented) The granule according to Claim 1 in which an alkali is adsorbed on the surface thereof, or enveloped therein.
20. (Previously Presented) The granule according to Claim 1 in which an acid is adsorbed on the surface thereof, or enveloped therein.
21. (Previously Presented) The granule according to Claim 1 in which a salt is adsorbed on the surface thereof, or enveloped therein.
22. (Previously Presented) The granule according to Claim 1 in which an antilumping agent is adsorbed on the surface thereof, or enveloped therein.
23. (Previously Presented) The granule according to Claim 1 in which a flavour intensifier is adsorbed on the surface thereof, or enveloped therein.

24. (Previously Presented) The granule according to Claim 1 in which a sweetener is adsorbed on the surface thereof, or enveloped therein.
25. (Previously Presented) The granule according to Claim 1 in which an aroma agent is adsorbed on the surface thereof, or enveloped therein.
26. (Previously Presented) The granule according to Claim 1 in which a feedstuff additive is adsorbed on the surface thereof, or enveloped therein.
27. (Previously Presented) The granule according to Claim 1 in which a chemical intermediate is adsorbed on the surface thereof, or enveloped therein.
28. (Previously Presented) The granule according to Claim 1 in which a plant protection agent is adsorbed on the surface thereof, or enveloped therein.
29. (Previously Presented) The granule according to Claim 1 in which an herbicide is adsorbed on the surface thereof, or enveloped therein.
30. (Previously Presented) The granule according to Claim 1 in which an insecticide is adsorbed on the surface thereof, or enveloped therein.
31. (Previously Presented) The granule according to Claim 1 in which a fungicide is adsorbed on the surface thereof, or enveloped therein.
32. (Previously Presented) The granule according to Claim 1 which is spherical.
33. (Previously Presented) The granule according to Claim 1 which further contains a natural or synthetic resin.
34. (Previously Presented) The granule according to Claim 1 which further contains at least one of an antifoam agent, peroxide, a stabilizer, a plasticizer, a free radical interceptor and a wetting agent.

35. (Previously Presented) The granule according to Claim 1 wherein the silicon dioxide envelops solid particles or liquid droplets of said substance.

36-38. (Canceled)

39. (New) The flowable granular adsorbate of claim 1 characterized as having good flowability (flow rating 2, slope angle $< 40^\circ$).

40. (New) The flowable granular adsorbate of claim 1 characterized as being sulphate free.